

SAMPLE DECK DRAWINGS

General Notes

1. All lumber shall be pressure treated for exterior use. All metal fasteners & hangers shall be G185 galvanized, stainless steel or otherwise compatible with the wood treatment. *All bolts shall be 1/2" diameter, minimum.*
 2. All beams, joists, posts and decking shall be No. 2 Southern Pine, or better.
 3. All beam splices and top rails shall occur at a post or otherwise on adequate bearing.
 4. All footings shall be cast-in-place concrete with a min. 2500 psi compressive strength.
 5. Guards are required at all areas where the deck/porch floor is greater than 30" above grade at any point.
 6. Required guards shall be 36" tall (min.) and be constructed such that a 4" diameter object will not pass through.
 7. Guard post spacing shall not exceed 6 ft. on center.
 8. Required guards & handrails at stairs shall range from 34" to 38" vertically above the stair nosing.
 9. Handrail ends, at the top and bottom, shall terminate into a post or be returned to a wall.
 10. On stairs with closed risers, treads shall have a Projected nosing ranging from 3/4" to 1-1/4". All treads and risers shall be equal.
 11. The deck/porch floor shall be within 8-1/4" of the top of the door threshold.
 12. Live Load Deflection: Joists & Beams- $L/360$
Guards- $L/240$
 13. Design Loads: Floor Live Load - 40 lbs./sf (min.)
Wind Speed - 90 mph
Soil Bearing Pressure - 1500 lbs./sf
 14. Guards shall be designed for a 200 lb. concentrated load placed along the top rail in any direction, at any point.
 15. This deck/porch is not designed for hot-tub or spa loading.
 16. All exterior stairs & associated landings shall be illuminated.
 17. Post size is based on the height of the deck floor above finished grade (at the highest point):
0' to 8' high: 4x4, 4x6, 6x6
8' to 10' high: 4x6, 6x6
10' and up: 6x6 (required for multi-level decks too)
 18. All separated beams shall receive full depth solid Blocking at 24" on center, maximum spacing.
 19. *The actual field construction shall match the approved plans. All field changes and/or deviations require an Engineering Change approval.*
- GO TO www.com.ohio.gov/DICO/bbs/ [Residential Code of Ohio Effective July 1, 2019](#) Chapter 507 for more on deck code requirements.

*** FILL IN ALL SPACES ***

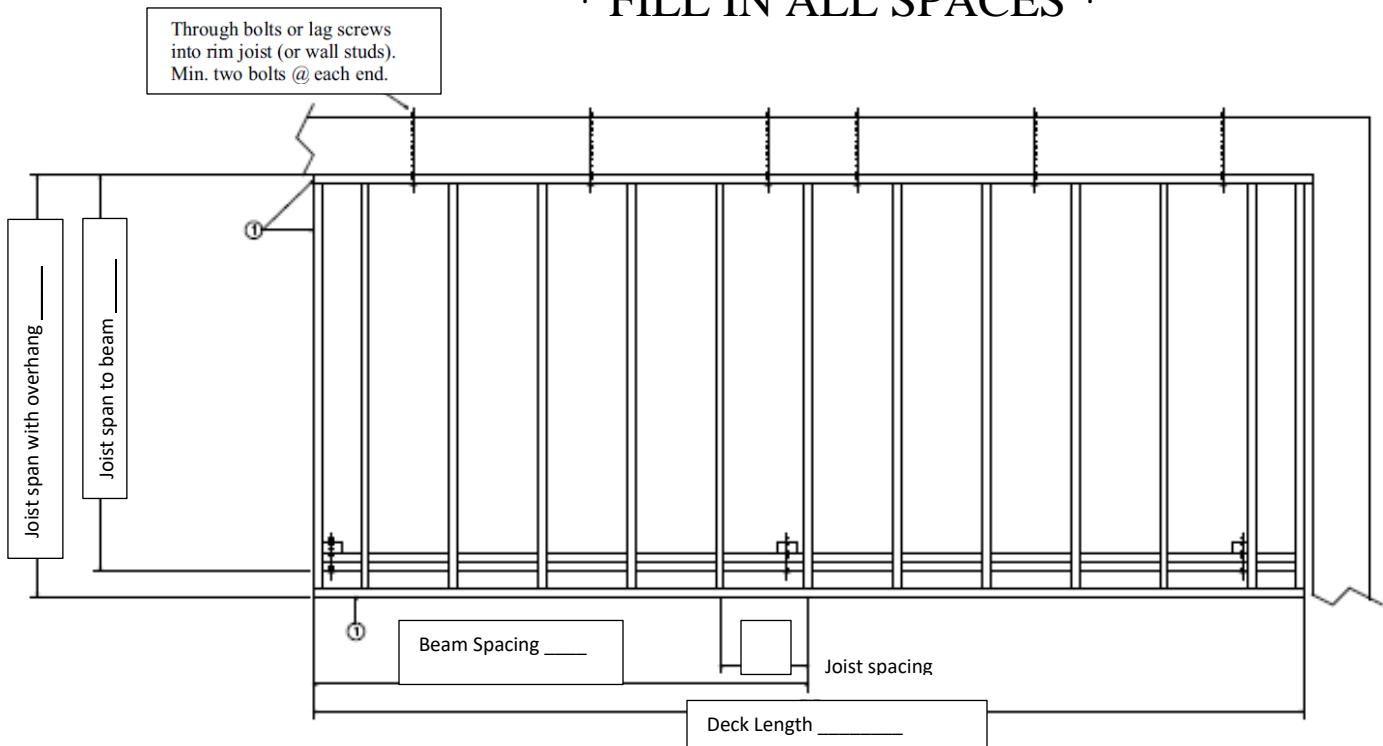


TABLE 403.5
MINIMUM FOOTING SIZE FOR DECK FOOTINGS WITHOUT ROOF LOADS
EXTERIOR DECK AND PORCH FOOTING SIZE IN INCHES ^{a,b}

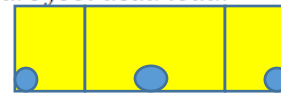
<i>Diameter</i>	<i>Square</i>	<i>Maximum Tributary Area Allowed Per Post (square feet)</i>
8	8 x 8	14
10	9 x 9	22
12	11 x 11	31.6
14	13 x 13	42.8
16	15 x 15	56
18	16 x 16	70.8
20	18 x 18	87.2

a. Based upon 2000 lbs. per square foot soil bearing capacity.

b. Based upon 40 lbs. per square foot live load and a 10 lbs. per square foot dead load.

PER FOOTING TRIBUTARY AREA.

Center ones will be larger due to area.



BEAM MUST BEAR FULLY ON POST

Beam to Post Connection Options

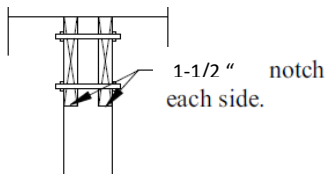
[3] Choose one beam to post connection option. [4] Choose one post size based on the height of the deck.

| ☐ Option A |

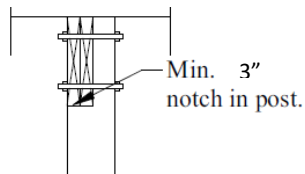
| ☐ Option B |

| ☐ Option C |

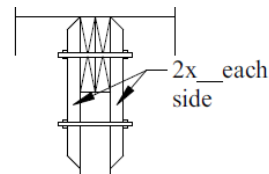
| ☐ Option D |



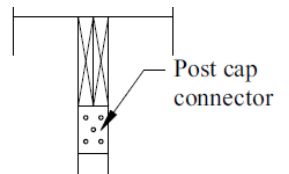
- ☐ 4x4 posts (up to 8')
- ☐ 4x6 posts (up to 10')
- ☐ 6x6 posts req'd over 10')



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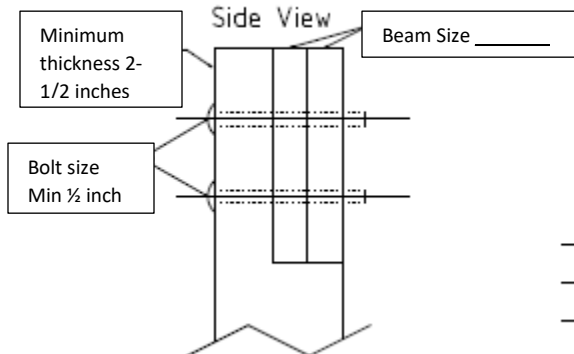


- ☐ 4x4 posts (up to 8')
- ☐ 4x6 posts (up to 10')
- ☐ 6x6 posts req'd over 10')

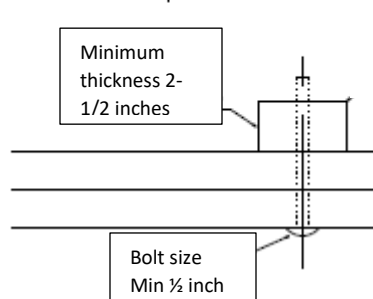


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- ☐ 6x6 posts req'd over 10')

Post Connection Detail

















Post Connection Detail



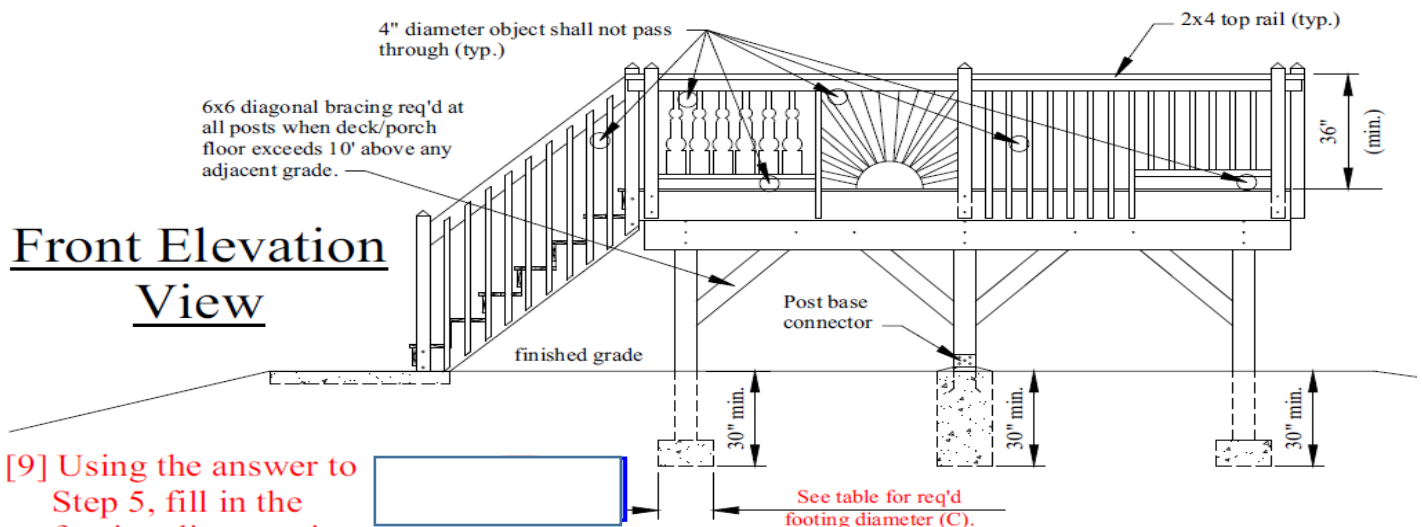
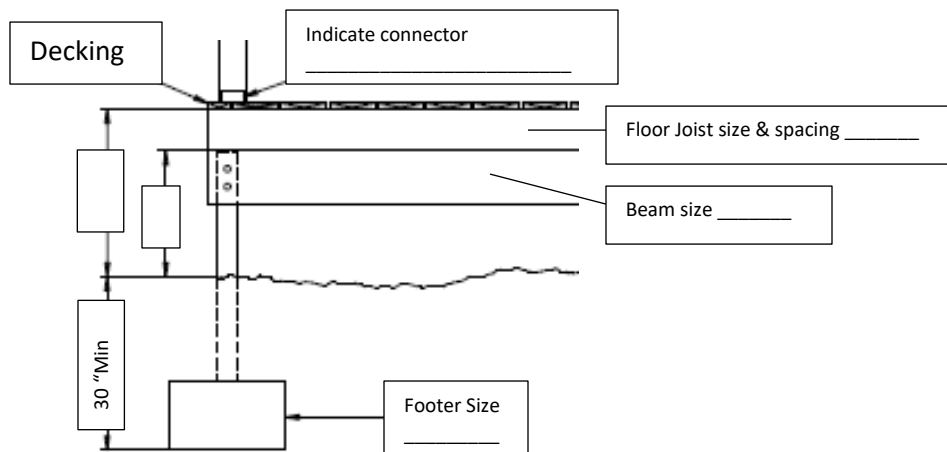
Framing/Footing Table

[1] Choose one floor joist size with the associated span, [2] Choose one floor beam size. Entire row applies.

Floor Joists ^a			Floor Beams ^b			Footing Size				1/2" Ledger	
Choose Joist Size	Lumber	Max.	Choose One Row	Lumber	Max.	Single-Span Floor Joists		Multi-Span Floor Joists		Board Bolts	
	Size	Span [A]			Size	Span [B]	min. dia. [C]	min. thick [D]	min. dia. [C]	min. thick [D]	Spacing
	(nominal)	(feet)			(nominal)	(feet)	(inches)	(inches)	(inches)	(inches)	(inches)
	2 x 6	8		(2) 2 x 6	5	12	6	15	8	24	
				(2) 2 x 8	7	13	7	19	10	24	
				(2) 2 x 10	9	15	8	23	12	24	
				(2) 2 x 12	11	17	9	24	12	24	
	2 x 8	10		(2) 2 x 8	7	14	7	20	10	16	
				(2) 2 x 10	9	17	9	24	12	16	
				(2) 2 x 12	10	18	9	25	13	16	
	2 x 10	13		(2) 2 x 10	8	17	9	24	12	16	
				(2) 2 x 12	9	18	9	26	13	16	
	2 x 12	16		(2) 2 x 12	8	20	10	28	14	12	

a. Choose one joist size and cooresponding maximum span. All joists are spaced a maximum of 16" oc.

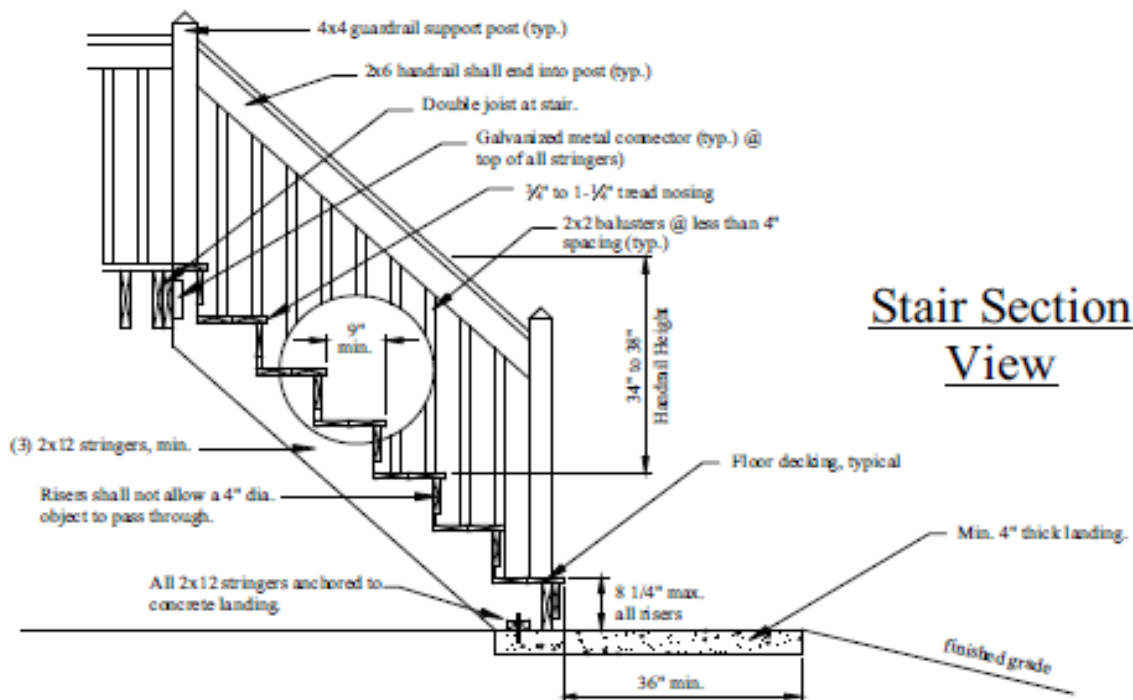
b. Choose one floor beam (entire row) that cooresponds with the size of joist chosen.



[9] Using the answer to Step 5, fill in the footing diameter in inches.

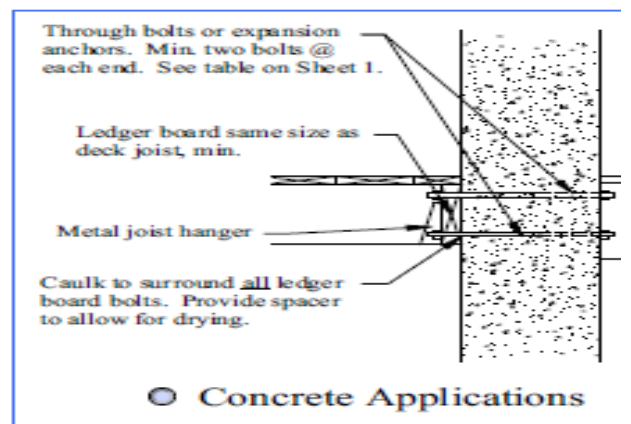
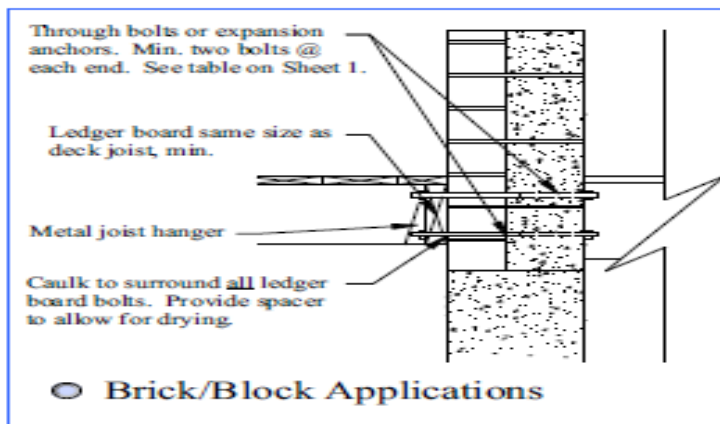
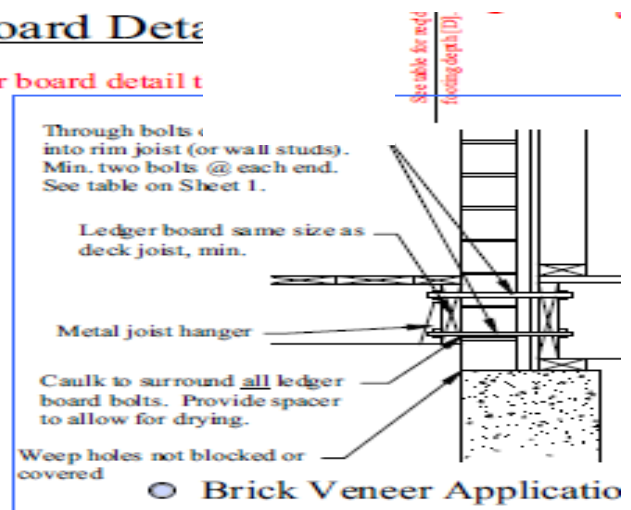
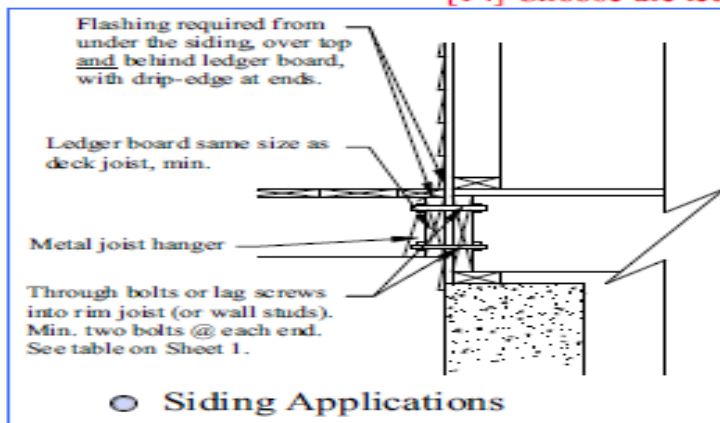
[10] Choose a footing option:

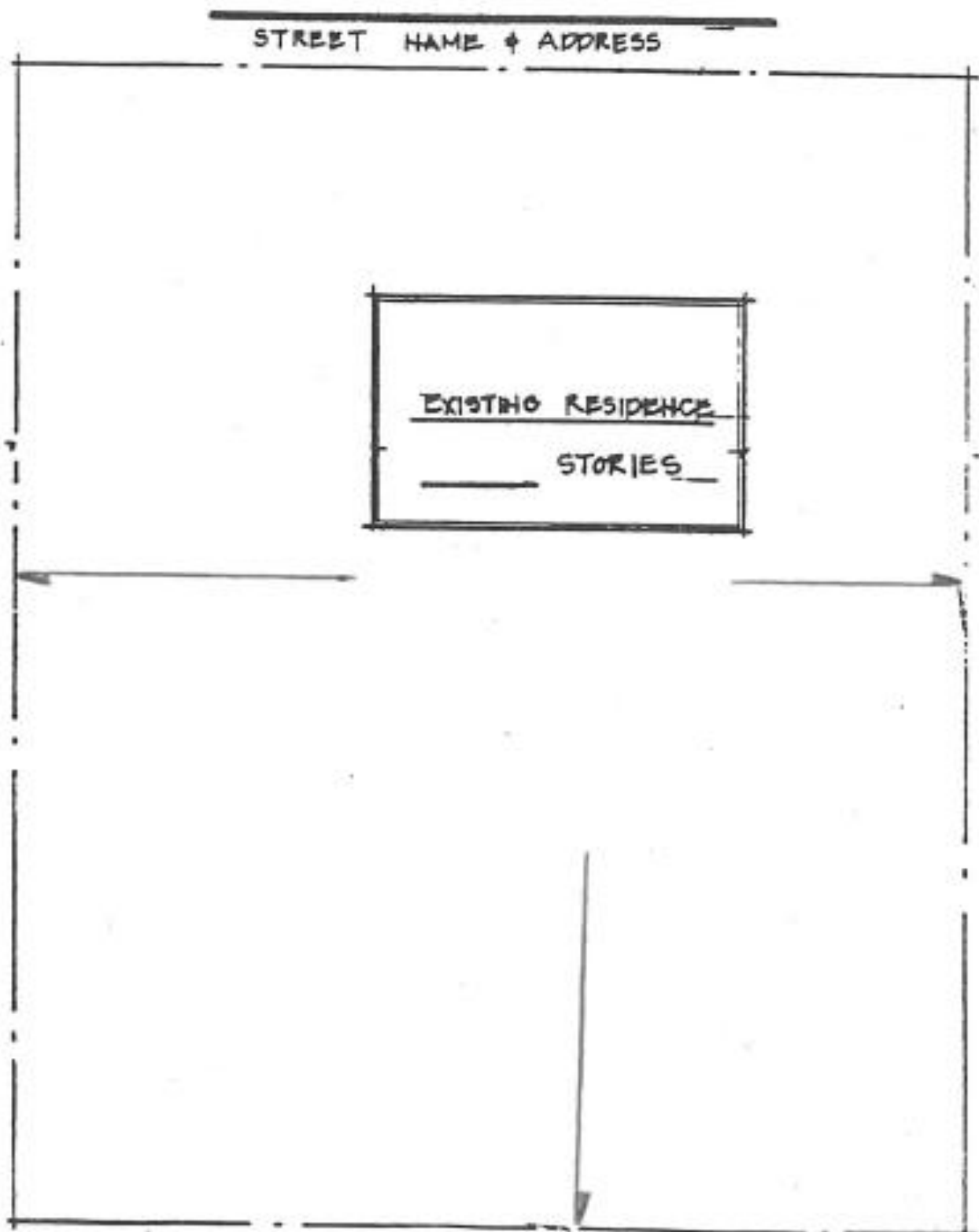
- ☐ Post attached to top of concrete footing
 ☐ Post on top of buried concrete footing



Ledger Board Details

[14] Choose the ledger board detail that





PLOT PLAN
NOT TO SCALE

* Provide location of project on lot and show distances to property lines.